

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/564,264
Source: IFWP
Date Processed by STIC: 7-20-06

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,264

DATE: 01/20/2006

TIME: 12:06:27

Input Set : A:\AM100904 (05-12-04).ST25.txt
 Output Set: N:\CRF4\01202006\J564264.raw

3 <110> APPLICANT: Wyeth Holdings Corporation
 5 <120> TITLE OF INVENTION: RECOMBINANT EXPRESSION OF STREPTOCOCCUS PYOGENES CYSTEINE
 6 PROTEASE AND IMMUNOGENIC COMPOSITIONS THEREOF
 8 <130> FILE REFERENCE: AM100904
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/564,264
 C--> 10 <141> CURRENT FILING DATE: 2006-01-09
 10 <160> NUMBER OF SEQ ID NOS: 15
 12 <170> SOFTWARE: PatentIn version 3.2
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 1197
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Streptococcus pyogenes
 19 <400> SEQUENCE: 1
 20 atgaataaaa agaaattagg tgcagatta ttaagtcttt tagcattagg tggatttg 60
 22 cttgctaacc cagttttgc cgatcaaaac ttgcgtcgta acgaaaaaga agcaaaagat 120
 24 agcgctatca catttatcca aaaatcagca gctatcaaag caggtgcacg aagcgcagaa 180
 26 gatattaago ttgacaaagt taacttaggt ggagaacttt ctggctctaa tatgtatgtt 240
 28 tacaatattt ctactggagg atttgttac ttgcgttgcg ataaacgttc tccagaaatt 300
 30 ctaggatact ctaccagcgg atcatgttgc gctaacggta aagaaaacat tgcttccttc 360
 32 atggaaagtt atgtcgaaca aatcaaagaa aacaaaaat tagacactac ttatgtcggt 420
 34 accgctgaga ttcaaacaacc agttgttaaa tctctccctt attcaaaaagg cattcattac 480
 36 aatcaaggta acccttacaa cctattgaca cctgttattt aaaaagtaaa accaggtgaa 540
 38 caatctttt taggtcaaca tgcagctaca ggatgtgttgc tcaactgcaac tgctcaaatt 600
 40 atgaaatato ataattaccc taacaaagggt ttgaaagact acacttacac actaagctca 660
 42 aataaccat atttcaacca tcctaagaac ttgtttgcag ctatctctac tagacaatac 720
 44 aactggaaca acatcttacc tacttatacg ggaagagaat ctaacgttca aaaaatggcg 780
 46 atttcagaat tggatgttgc ttgttgcattt tcgttagaca tggattatgg tccatctgt 840
 48 ggttctgcag gtatgttgc ttgttcaaaa gccttgcggaaa aaaaacttttttgc tcaacacc 900
 50 tctgttccacc aaatcaaccc tggcgactttt agcaaaacaag attggaaagc acaaatttgc 960
 52 aaagaattat ctcaaaaacca accagtatac taccaagggtg tggatgttgcatttggatgg 1020
 54 gctttgtta tggatgttgc ttgttgcattt tggatgttgcatttggatgg 1080
 56 ggagtctctg acggcttctt ccgtcttgc gactaaacc cttcagctct tggatgttgc 1140
 58 ggcggcgcag gcccgttcaaa cgggttaccaa agtgcgttgc taggcattcaaa accttag 1197
 61 <210> SEQ ID NO: 2
 62 <211> LENGTH: 398
 63 <212> TYPE: PRT
 64 <213> ORGANISM: Streptococcus pyogenes
 66 <400> SEQUENCE: 2
 68 Met Asn Lys Lys Lys Leu Gly Val Arg Leu Leu Ser Leu Leu Ala Leu
 69 1 5 10 15
 72 Gly Gly Phe Val Leu Ala Asn Pro Val Phe Ala Asp Gln Asn Phe Ala
 73 20 25 30
 76 Arg Asn Glu Lys Glu Ala Lys Asp Ser Ala Ile Thr Phe Ile Gln Lys

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77      35          40          45
80 Ser Ala Ala Ile Lys Ala Gly Ala Arg Ser Ala Glu Asp Ile Lys Leu
81      50          55          60
84 Asp Lys Val Asn Leu Gly Gly Glu Leu Ser Gly Ser Asn Met Tyr Val
85 65      70          75          80
88 Tyr Asn Ile Ser Thr Gly Gly Phe Val Ile Val Ser Gly Asp Lys Arg
89      85          90          95
92 Ser Pro Glu Ile Leu Gly Tyr Ser Thr Ser Gly Ser Phe Asp Ala Asn
93      100         105         110
96 Gly Lys Glu Asn Ile Ala Ser Phe Met Glu Ser Tyr Val Glu Gln Ile
97      115         120         125
100 Lys Glu Asn Lys Lys Leu Asp Thr Thr Tyr Ala Gly Thr Ala Glu Ile
101     130         135         140
104 Lys Gln Pro Val Val Lys Ser Leu Leu Asp Ser Lys Gly Ile His Tyr
105 145      150         155         160
108 Asn Gln Gly Asn Pro Tyr Asn Leu Leu Thr Pro Val Ile Glu Lys Val
109      165         170         175
112 Lys Pro Gly Glu Gln Ser Phe Val Gly Gln His Ala Ala Thr Gly Cys
113     180         185         190
116 Val Ala Thr Ala Thr Ala Gln Ile Met Lys Tyr His Asn Tyr Pro Asn
117     195         200         205
120 Lys Gly Leu Lys Asp Tyr Thr Tyr Thr Leu Ser Ser Asn Asn Pro Tyr
121     210         215         220
124 Phe Asn His Pro Lys Asn Leu Phe Ala Ala Ile Ser Thr Arg Gln Tyr
125 225      230         235         240
128 Asn Trp Asn Asn Ile Leu Pro Thr Tyr Ser Gly Arg Glu Ser Asn Val
129      245         250         255
132 Gln Lys Met Ala Ile Ser Glu Leu Met Ala Asp Val Gly Ile Ser Val
133     260         265         270
136 Asp Met Asp Tyr Gly Pro Ser Ser Gly Ser Ala Gly Ser Ser Arg Val
137     275         280         285
140 Gln Arg Ala Leu Lys Glu Asn Phe Gly Tyr Asn Gln Ser Val His Gln
141     290         295         300
144 Ile Asn Arg Gly Asp Phe Ser Lys Gln Asp Trp Glu Ala Gln Ile Asp
145 305      310         315         320
148 Lys Glu Leu Ser Gln Asn Gln Pro Val Tyr Tyr Gln Gly Val Gly Lys
149      325         330         335
152 Val Gly Gly His Ala Phe Val Ile Asp Gly Ala Asp Gly Arg Asn Phe
153     340         345         350
156 Tyr His Val Asn Trp Gly Trp Gly Gly Val Ser Asp Gly Phe Phe Arg
157     355         360         365
160 Leu Asp Ala Leu Asn Pro Ser Ala Leu Gly Thr Gly Gly Ala Gly
161     370         375         380
164 Gly Phe Asn Gly Tyr Gln Ser Ala Val Val Gly Ile Lys Pro
165 385      390         395
168 <210> SEQ ID NO: 3
169 <211> LENGTH: 27
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial

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173 <220> FEATURE:
174 <223> OTHER INFORMATION: synthetic oligonucleotide
176 <400> SEQUENCE: 3
177 ccatggAACc agttgttaaa tctctcc                                27
180 <210> SEQ ID NO: 4
181 <211> LENGTH: 29
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial
185 <220> FEATURE:
186 <223> OTHER INFORMATION: synthetic oligonucleotide
188 <400> SEQUENCE: 4
189 ggatcctaAG gtttGATGCC tacaacAGC                                29
192 <210> SEQ ID NO: 5
193 <211> LENGTH: 27
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial
197 <220> FEATURE:
198 <223> OTHER INFORMATION: synthetic oligonucleotide
200 <400> SEQUENCE: 5
201 ccatggatCA aaactttgCT cgtaACG                                27
204 <210> SEQ ID NO: 6
205 <211> LENGTH: 30
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial
209 <220> FEATURE:
210 <223> OTHER INFORMATION: synthetic oligonucleotide
212 <400> SEQUENCE: 6
213 ggatccttat ttaatctcAG cggtaCCAGC                                30
216 <210> SEQ ID NO: 7
217 <211> LENGTH: 23
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial
221 <220> FEATURE:
222 <223> OTHER INFORMATION: synthetic oligonucleotide
224 <400> SEQUENCE: 7
225 gctacaggat gtGTTGCTAC tgc                                23
228 <210> SEQ ID NO: 8
229 <211> LENGTH: 23
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: synthetic oligonucleotide
236 <400> SEQUENCE: 8
237 gcagtagcaa cacatCCTGT agc                                23
240 <210> SEQ ID NO: 9
241 <211> LENGTH: 30
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial
245 <220> FEATURE:

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246 <223> OTHER INFORMATION: synthetic oligonucleotide
248 <400> SEQUENCE: 9
249 agatctaagg agatatacat atggacccag 30
252 <210> SEQ ID NO: 10
253 <211> LENGTH: 33
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: synthetic oligonucleotide
260 <400> SEQUENCE: 10
261 agatcttaa gaaggagata tacatatgga acc 33
264 <210> SEQ ID NO: 11
265 <211> LENGTH: 39
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial
269 <220> FEATURE:
270 <223> OTHER INFORMATION: synthetic oligonucleotide
272 <400> SEQUENCE: 11
273 agatctgcac ataactttaa gaaggagata tacatatgg 39
276 <210> SEQ ID NO: 12
277 <211> LENGTH: 59
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial
281 <220> FEATURE:
282 <223> OTHER INFORMATION: synthetic oligonucleotide
284 <400> SEQUENCE: 12
285 agatctaact tgactaaatt cgaacagcac ataactttaa gaaggagata tacatatgg 59
288 <210> SEQ ID NO: 13
289 <211> LENGTH: 30
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial
293 <220> FEATURE:
294 <223> OTHER INFORMATION: synthetic oligonucleotide
296 <400> SEQUENCE: 13
297 ctcgagctaa ggtttgatgc ctacaacagc 30
300 <210> SEQ ID NO: 14
301 <211> LENGTH: 27
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial
305 <220> FEATURE:
306 <223> OTHER INFORMATION: synthetic oligonucleotide
308 <400> SEQUENCE: 14
309 ccatggatca aaactttgct cgtaacg 27
312 <210> SEQ ID NO: 15
313 <211> LENGTH: 30
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial
317 <220> FEATURE:
318 <223> OTHER INFORMATION: synthetic oligonucleotide

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320 <400> SEQUENCE: 15

321 ctcgagctaa ggtttgatgc ctacaacagc

30

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15

VERIFICATION SUMMARY

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Input Set : A:\AM100904 (05-12-04).ST25.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date